

L# ANSWER 34 OF 419 CAPLUS COPYRIGHT 2002 ACS

AN 2001:18946 CAPLUS

DN 134:87908

TI High-purity pyrrolidones with little coloring and manufacturing methods therefor

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SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	JP 2001002640	A2	20010109	JP 1999-173075	19990618
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AB A method includes heating .gamma.-butyrolactone (I) with ammonia or primary alkylamines in water, feeding the reaction mixt. to a distn. column, distg. with av. residence time 10 min-8 h and temp. 90.degree.-200.degree. for the bottom liq., discharging 2-15% pyrrolidones or N-alkylpyrrolidones from the bottom of the column, distg. off water, low-boiling components, and residual pyrrolidones or N-alkylpyrrolidones, feeding the distillate to a 2nd distn. column, distg. off water and low-boiling components, and discharging pyrrolidones or N-alkylpyrrolidones from the bottom of the column. Thus, I reacted with monomethylamine to prep. pure N-methylpyrrolidone having same coloration 10 APHA after prepn. and 7 days.

IC ICM C07D207-267

DT Patent

LA Japanese